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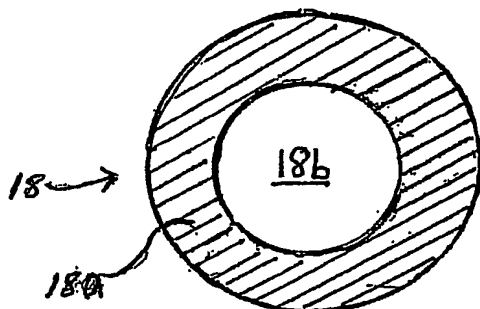
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(54) Title: TUBULAR SIGNAL TRANSMISSION DEVICE AND METHOD OF MANUFACTURE



(57) Abstract: A signal transmission tube may be made by disposing a reactive polymeric material within a confinement tube and leaving a portion of the tube interior unoccupied. The tube may be formed by disposing a layer of paint comprising the reactive polymeric material on the interior surface of the confinement tube, extruding the confinement tube over an elongate rod that comprises the reactive polymeric material. The rod preferably has a high surface area configuration, e.g., the rod may comprise a longitudinal bore therethrough or may be star-shaped, cross-shaped, etc. Alternatively, the signal transmission tube may be made from the reactive polymeric material. Optionally, a sheath may be extruded over the tubular reactive polymeric material. In various embodiments, the confinement tube or sheath may be configured to be fractured or substantially consumed by the reaction of the reactive polymeric material. Optionally, the reactive polymeric material may comprise a glycidyl azide polymer.

WO 2004/100177 A2